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1. Location of Reading Room: Idaho Operations Public Reading Room 1776 Science Center Dr. University Place Idaho Falls, ID 83403		2. Expected Release Date: May 15, 1995										
3. Document Type: <table border="0"><tr><td><input type="checkbox"/> Letter</td><td>a. If letter or memo:</td></tr><tr><td><input type="checkbox"/> Memorandum</td><td>To:</td></tr><tr><td><input checked="" type="checkbox"/> Report</td><td>From:</td></tr><tr><td><input type="checkbox"/> Publication</td><td>Subject:</td></tr><tr><td><input type="checkbox"/> Other (Specify)</td><td></td></tr></table> b. If report: Title: ANALYTICAL CHEMISTRY BRANCH - MONTHLY REPORT - JULY, 1964			<input type="checkbox"/> Letter	a. If letter or memo:	<input type="checkbox"/> Memorandum	To:	<input checked="" type="checkbox"/> Report	From:	<input type="checkbox"/> Publication	Subject:	<input type="checkbox"/> Other (Specify)	
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4. Document Date: August 7, 1964	c. If publication: Name: Volume: Issue:											
5. Summary (2-3 lines indicating the major subject(s) of the document): Report on the routine study of biological samples, water samples and ecological samples; whole body analysis; procedure for the determination of thorium, radium, polonium, bismuth and lead in river water, mill effluents and mill tailings etc.												
6. Name and telephone number of person completing form: Anjan K. Majumder (208) 525-0206	7. Organization: Lockheed Idaho Technologies Co.	8. Date: MAY, 1995										

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HUMAN RADIATION EXPERIMENTS

RECORDS PROVENANCE FORM

REPOSITORY NAME		INEL
* COLLECTION NAME	ORIGINAL NAME	RESL READING FILES / MONTHLY ACTIVITY REPORTS
	NEW NAME	RADIOLOGICAL AND ENVIRONMENTAL SCIENCES LABORATORY, FILES OF DOUG CARLSON, DIRECTOR
BOX NUMBER		BOX # 1
ADDITIONAL LOCATION INFORMATION		RESL, CFA-690, ROOM # 102, ON THE FLOOR FOLDER: MONTHLY ACTIVITY REPORT- ANALYTICAL CHEMISTRY BRANCH, 1958-1972
FILE TITLE		ANALYTICAL CHEMISTRY BRANCH - MONTHLY REPORT - JULY 1964
TOTAL PAGES		
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DOCUMENT TITLE: ANALYTICAL CHEMISTRY BRANCH - MONTHLY REPORT -
JULY 1964

CROSS REFERENCES:

ITEMS OF INTEREST:

* A NEW COLLECTION NAME REPLACED THE ORIGINAL DUE TO
REORGANIZATION OF RECORD SERIES

REPOSITORY INEL
COLLECTION RESL Reading Files Monthly
Activity Reports

BOX No. Box #1, CFA-690 Rm-102
Monthly Activity Reports
FOLDER Analytical Chemistry Branch 1958-72
John R. Moran, Director
Health and Safety Division

August 7, 1964

Claude W. Sill, Ass't Director for Technology
Health and Safety Division

ANALYTICAL CHEMISTRY BRANCH - MONTHLY REPORT - JULY 1964

HSAC:CPW

ROUTINE

Biological Samples (Urine, feces, etc.)	574
Water Samples (Potable, effluents, etc.)	304
Ecological Samples (Milk, animal, veg.)	29
Air Dusts (Carbon Cart. Filters, etc.)	351
Mill Samples (Air Dusts, effluents, etc.)	12
Miscellaneous	16
Whole-Body Analysis	125

RESEARCH

A procedure is being developed for the determination of thorium, radium, polonium, bismuth and lead in river waters, mill effluents and mill tailings. A method for determining stable chromium in urine has been developed to check the chromium uptake in NRE personnel from potable water.

Continued study to develop a method for quantitative determination of radionuclides in samples of variable geometrical configuration and nonuniform activity distribution by scintillation spectrometry. Count rate was found to be relatively independent of activity distribution when the sample was rotated at a constant rate and scanned simultaneously during counting period.

SPECIAL ACTIVITIES

Received and checked out a large solid state detector. The whole-body counter was standardized for counting uranium in the lungs.

WHOLE-BODY COUNTING FACILITIES

One hundred and twenty-five total counts were made on 116 individuals as follows: 75 routine, 16 termination, 12 nationwide study, and 22 others.